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UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF CALIFORNIA SAN FRANCISCO/OAKLAND DIVISION

THE TORRLUBE COMPANY, LLC,

Plaintiff.

VS.

TEC-LUBE INDUSTRIES, INC, a corporation; FIL-TECH WEST, a corporation;

Defendants

No. C 07 1841 BZ

STIPULATION FOR LEAVE TO FILE AMENDED COMPLAINT and ORDER (Rule 15 a, FRCP)

It is hereby stipulated by and between the parties hereto, by their respective counsel of record, subject to the approval of the Court and pursuant to Rule 15(a), FRCP, that plaintiff The TorrLube Company LLC may file its "Amended Complaint" in the form attached hereto which "Amended Complaint" adds claims against Fil Tech Inc., a Massachusetts corporation, and certain additional claims against Fil Tech West, Inc, and which deletes "Tec-Lube Industries Inc" as a named defendant. These changes are in the interests if justice and will promote the efficient administration of justice and the resolution of the disputes in this matter and are not intended to

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STIPULATION FOR LEAVE TO FILE AMENDED COMPLAINT and ORDER

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8	UNITED STATES DISTRICT COURT	
9	FOR THE NORTHERN DISTRICT OF CALIFORNIA	
10	SAN FRANCISCO/OAKLAND DIVISION	
11		
12	THE TORRLUBE COMPANY, LLC,	
13	Plaintiff,	[Proposed] AMENDED
14	vs.	COMPLAINT - DAMAGES, TREBLE
15	}	DAMAGES, and INJUNCTIVE RELIEF FOR VIOLATION OF LANHAM ACT (False
16	FIL-TECH WEST, a corporation; TEC- LUBE INDUSTRIES; FIL TECH INC.,	Advertising) AND UNFAIR TRADE
17	a corporation	PRACTICES (California B & P Code 17200) and COMMON LAW UNFAIR COMPETITION
150)
18	Defendants	DEMAND FOR JURY TRIAL
19 20		
21	Plaintiff, The TorrLube Company LLC, for its causes of action against Defendants, alleges	
22	as follows:	
23	ALLEGATIONS COMMON TO ALL COUNTS	
24	 At all times herein relevant and at the present time, plaintiff The TorrLube Company LLC 	
25	("TorrLube LLC" herein) was and now is a valid California Limited Liability Company with	
26	its principal place of business in Santa Barbara, California. TorrLube LLC is the owner of	
27	the registered trademark "TorrLube" for certain specialized lubricants used in high vacuum	
28	************************************	
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- situations. Under this trademark, TorrLube LLC sells lubricants throughout the United States in interstate commerce and in California.
- 2. Defendant Fil-Tech West Inc ("FTW" herein) is a corporation with its principal place of business in Pleasanton, California (Alameda County) and in the Northern District of California. Plaintiff is informed and believes, and thereon alleges, that "Tec-Lube Industries" is a wholly owned subsidiary of FTW, which also has its principal place of business at the same location and in the Northern District of California. Plaintiff is informed and believes that FTW created its Tec-Lube subsidiary in 1998 for the sole purpose of competing with TorrLube's lubricants (then owned and sold by TorrLube LLC's predecessor).
- 3. Defendant Fil Tech Inc. ("FTI") is a corporation with its principal place of business in Boston, Massachusetts. Plaintiff is informed and believes, and thereon alleges, that FTI and FTW are related by contract or contracts in some way not known to plaintiff, that FTW acts as an exclusive distributor for FTI and that FTI acts as an exclusive distributor for FTW and Tec-Lube brand products.
- FTW and FTI advertise and sell lubricants that compete with Torrlube lubricants in commerce throughout the United States and in California under the "Tec-Lube" brand.
- 5. In the mid-1970's, TorrLube LLC's predecessor began testing and utilizing a lubricant made by DuPont (marketed for other purposes by DuPont) in machines operating in a high vacuum environment in the manufacture of integrated circuits and other high vacuum processes and, in or about October 1982, began selling such lubricants for said uses under the "TorrLube" brand and trademark.
- 6. "TorrLube" is a registered trademark (originally registered to plaintiff's predecessor at #1,227,763 in May, 1984 – first use, October, 1982 - and "issued" as #1,869,190 on December 27, 1994), declaration of continued use ("incontestability") under sections 8 and 15 was filed in December 2000. Said trademark is now owned by plaintiff The TorrLube Company, LLC (assignment to plaintiff recorded on January 18, 2000 as Reel 002019, frame 0261).

- At all times herein relevant, TorrLube has been and now is recognized as the "industry leader" with respect to providing such lubricants.
- Prior to 2002, both TorrLube, under its "TorrLube" trademark, and FTI and FT, under the Tec-Lube brand, sold what TorrLube LLC is informed and believes is essentially the same product, DuPont Krytox 143 AD oil, which each packaged and sold under its own "brand."
- 9. In 2002, TorrLube LLC obtained (from the developer and sole manufacturer) the exclusive right to sell in the United States and North America, and began to sell, a greatly improved lubricant (Krytox TLC lubricant) for use in high vacuum applications; in 2005 it began selling that TLC lubricant exclusively under its "TorrLube" brand and trademark.

JURISDICTION AND VENUE

10. This Court has subject matter jurisdiction because this matter arises under 15 USC section 1125 (a) which provides for a civil action against any person who, "in connection with any goods or services, or in any container for goods, uses in commerce any word, term, name, symbol or devise, or any combination thereof...or any false or misleading description of fact, or false or misleading misrepresentation of fact which (A) is likely to cause...mistake, or to deceive as to the...approval of his or her goods, services or commercial activities, or (B) in commercial advertising...misrepresents the nature, characteristics, qualities...of his or her or another person's goods, services or commercial activities, shall be liable in a civil action by any person that he or she is likely to be damaged by such act."

This action also is brought under 28 USC 1114 and 15 USC 1116 (injunctive relief) and 15 USC 117 (damages and attorneys fees).

- 11. This Court has jurisdiction of the Lanham Act claims in Count One, Two and Three under 28 USC 1338 (a)and over the state law (Unfair Competition) claims in Count Two (partially) and Counts Four and Five under 28 USC 1338 (b) and 1367 (a).
- 12. This Court has personal jurisdiction over defendant FTW (individually and doing business through its subsidiary, "Tec-Lube Industries") because FTW is a California corporation that has its principal place of business in this State and in this District. Venue is proper in this District pursuant to 28 USC section 11391 (b)(1) and (2) because defendant FTW and its

- subsidiary, "Tec-Lube Industries" reside in this District and because a substantial part of the acts on which plaintiff's claims are based occurred in this District.
- 13. This Court has personal jurisdiction over defendant FTI because FTI purchases Tec-Lube brand lubricants in this district pursuant to a distributorship and other agreements entered into in this District and because it advertises throughout the United States on the internet and specifically in this district. The acts of FTI complained of herein are intended to, by FTI, and do have an adverse affect on plaintiff in this State and in this district.

INTRADISTRICT ASSIGNMENT

14. Pursuant to Local Rule 3-2 (c), assignment to the San Francisco/Oakland division is appropriate because defendant FTW resides in Alameda County, because all "Tec-Lube" brand lubricants are initially sold from Alameda County and because a substantial amount of the events which give rise to plaintiff's claims occurred in Alameda County.

FIRST COUNT [Damages under 28 USC 1117 for Violation of Lanham Act]

- 15. TorrLube LLC is informed and believes that FTW and FTI are both now selling Krytox 143 AD based lubricants under the "Tec-Lube" brand. The lubricants FTI and FTW have been selling since 2005 and are now selling under the Tec-Lube brand are not "identical to" or "the same as" the TLC lubricant being sold by TorrLube LLC under its "TorrLube" brand and trademark and do not perform the same or have the same characteristics. The Tec-Lube brand lubricants sold by FTI and FTW are inferior to and do not perform as well under high vacuum conditions as the TLC lubricants sold by The TorrLube Company LLC under its "TorrLube" brand and trademark.
- 16. FTI and FTW have undertaken an extensive advertising campaign in trade publications and on the internet in which they falsely claim, in advertising for Tec-Lube brand lubricants sold by them, that the lubricants they are selling under the Tec-Lube brand is "identical to" and "the same as" lubricants sold under the TorrLube brand and trademark by TorrLube LLC.

In truth and in fact, the lubricants sold by FTI and FTW under the Tec-Lube brand are not the same and are not identical to the lubricants sold by TorrLube under the TorrLube brand and trademark and are inferior to and do not have the same characteristics in high vacuum use as the lubricants sold by plaintiff under the "TorrLube" brand and trademark.

- 17. Notwithstanding that difference between the lubricants sold by FTI and FTW under the Tec-Lube brand and "TorrLube" lubricants, FTI and FTW now and in the last 6 months have advertised Tec-Lube's lubricant as follows and in other manners and at other locations and publications known to defendants and not known to plaintiff including on the internet as set forth in par. 23 through 27, herein below, which are incorporated herein by this reference:
 - A. "If you are currently using the leading lubricant for your high vacuum applications, consider this: Tec-Lube is the identical lubricant and sells for 20% less" [bold typeface in original]— Vacuum Technology & Coating Magazine January, 2007 [Exhibit A hereto]
 - B. "If you are currently using the leading lubricant for your high vacuum applications, consider this: Tec-Lube is the identical lubricant and sells for 20% less" [bold typeface in original]. Vacuum Technology & Coating Magazine February, 2007 [Exhibit B hereto]
 - C. "If you are currently using the leading lubricant for your high vacuum applications, consider this: Tec-Lube is the identical lubricant and sells for 20% less" [bold typeface in original]. Vacuum Technology & Coating Magazine March, 2007 [Exhibit C hereto]
 - D. "If you are currently using TorrLube for your high vacuum semiconductor applications, consider this: Tec-Lube is the identical lubricant and sells for 20% less." "Tec-Lube is guaranteed to provide identical performance to the industry leader, TorrLube." Tec-Lube website – copyright in 2006 – accessed on February 28, 2007 [Exhibit D hereto]
 - E. "What you should know about Tec-Lube.
 Is there a difference between Tec-Lube and TorrLube?

Tec-Lube is guaranteed to provide the same performance as TorrLube. It is the identical lubricant. The only difference in the lubricants is the price." Tec-Lube website (FAQ page) – accessed on February 27, 2007 [Exhibit E hereto].

- F. "If you are currently using TorrLube for your high vacuum semiconductor applications, consider this: Tec-Lube is the identical lubricant and sells for 20%..." [Google web search for "Tec-Lube" on February 28, 2007 – Exhibit F hereto].
- 18. On January 11, 2005, plaintiff demanded that the claims (on FTI's web site) that Tec Lube was "identical" and was "guaranteed to and would perform identically to TorrLube" be removed from FTI's web site. FTI and FTW refused to do so and said that since they had sold the identical product as TorrLube's predecessor sold in 1998, they could and would continue to claim that the lubricant they sold under the Tec-Lube brand was "identical" to the lubricant now being sold by Plaintiff. Prior to filing this action, plaintiff again demanded that defendants, and each of them, cease their false advertising as described above. Defendants indicated that they intended to continue to falsely advertise that Tec-Lube provided the "identical performance" as lubricants sold by plaintiff under the "TorrLube" brand and trademark.
- 19. As a result of said false claims by FTW and FTI concerning the nature and characteristics of lubricants they sell under the Tec-Lube brand and the lubricants sold by The TorrLube Company LLC under its "TorrLube" brand and trademark, plaintiff has been injured and damaged in amounts not now known to it but which are readily ascertainable and which consist of the total sales of Tec-Lube lubricants from 2005 until the date FTI and FTW cease claiming that they are selling the "identical lubricant for 20% less" and cease making claims that the lubricants sold by them are "identical" to lubricants sold by Plaintiff under the "TorrLube" brand and trademark. In addition to such sales, the reputation of plaintiff as "the industry leader" and the value of its trademark "TorrLube" has been injured and damaged due to inferior or unsatisfactory performance of Tec-Lube brand lubricants which are falsely advertised as having "identical" characteristics as TorrLube brand lubricants

- when, in fact, said lubricants are inferior to and do not perform the same as or identical to lubricants sold under the "TorrLube" brand and trademark.
- 20. Under 28 USC section 1117(a), plaintiff is entitled to recover defendants' profits, and to recover any damages sustained by the plaintiff and its costs of suit. Under 28 USC section 1117 (b), the amounts of actual damages should be tripled. The Court may also award attorneys fees to plaintiff.

SECOND COUNT

[Damages under 28 USC 1117 for Violation of Lanham Act and for Restitution under State Law by "coding" to Plaintiff's domain name]

- 21. Plaintiff hereby incorporates paragraphs 15 through 19, inclusive herein as though set forth in full at this point.
- 22. In addition to the above false advertisements and false claims, Tec-Lube and Fil-Tech West have caused their web-sites and the domain name "Tec-Lube" to be "coded" in such a way that internet search engines will refer to Tec-Lube's product and web site when "TorrLube" (plaintiff's domain name) is searched.
- 23. As a result of that improper conduct, a "Google search" of "TorrLube" results in the following (as the fourth "result"), "Tec-Lube Industries (866)651-8200. Tec-Lube is guaranteed to provide the same performance as TorrLube." A true copy of a "Google search" for "TORRLUBE" on March 6, 2007 is Exhibit G hereto. Plaintiff is informed and believes that the phone number listed is FTW's phone number.
- 24. A "Google search" for TorrLube on July 14, 2007 resulted in (as item #15) a reference to FTI's web site with the following language: "Tec-Lube in guaranteed to provide identical performance to the industry leader, TorrLube..." A true copy of that search is Exhibit G 1 hereto. The same search also refers to FTI (as result # 22) as follows: "FilTech offers Tec-Lube TM, the same lubricant as TorrLube at 10% savings." A true copy of that search result is Exhibit G 2.

- 25. Similarly, a search on "Ask.com" for "torrlube" results in the first response being "Tec-Lube: Better Choice. Identical Lubricant 20% cost savings." A true copy of Ask.com search result on March 7, 2997 is Exhibit H hereto.
- 26. As result of said improper conduct by defendants, and each of them, a search of "TorrLube" on Yahoo brings up both "Fil-Tech West." (item No. 9) and "Tec-Lube Lubricant. Tec-Lube The affordable alternative to TorrLube ™...guaranteed to provide identical performance to the industry leader, TorrLube ™" A true copy of a Yahoo search result on March 25, 2007 is Exhibit I hereto.
- 27. As a result of the continued improper conduct of defendants, a search on Microsoft "live search" on July 13, 2007 for "torrlube" retrieved, as the 6th and 7th results, references to the FTW web site together with the following: "Tec-Lube is guaranteed to provide the same performance as TorrLube". A true copy of that search result is Exhibit J
- 28. The acts of causing Tec-Lube to be a result on a search for "TorrLube" is a separate improper and invalid use of plaintiff's trademark and domain name and constitutes both cyber-piracy and unfair competition and also false designations of origin, false descriptions, false advertising and internet deception in violation of the prohibition in the Lanham Act (15 USC section 1125) and of false, untrue, misleading and deceptive advertising in violation of California law (Business & Professions Code section 17200 et seq.).
- 29. Plaintiff has been injured and damaged in amounts not known to it by reason of sales by FTI and FTW of Tec-Lube brand lubricants to customers who saw advertisements for the "identical lubricant" as TorrLube at 10% or 20% less money. In addition to such sales, the reputation of plaintiff as "the industry leader" and the value of its trademark "TorrLube" has been injured and damaged due to inferior or unsatisfactory performance of Tec-Lube brand lubricants which are advertised as having "identical" characteristics as TorrLube brand lubricants when, in fact, said lubricants are inferior to and do not perform the same as or identical to lubricants sold under the TorrLube brand and trademark.
- 30. Said damages under the Lanham Act consist of the actual sales, by defendants of Tec-Lube brand lubricants since 2002 (said amount is also "restitution" under California B & P Code

17200) and that such damages be tripled under the Lanham Act. Plaintiff is also entitled to its attorneys fees under the Lanham Act.

COUNT THREE [Injunction under 28 USC 1116]

- 31. Plaintiff hereby incorporates paragraphs 15 through 19, inclusive, and 22 through 28, inclusive, herein as though set forth in full at this point.
- 32. On January 11, 2005, plaintiff wrote to FTI and demanded that the claim on the Tec-Lube web site that "your knock-off product, Tech-Lube [sic] is GUARANTEED to perform identically to TorrLube" be removed because that claim "cannot be substantiated." Again, in 2007, plaintiff contacted FTW and indicated that its claims that Tec-Lube was "the identical lubricant to TorrLube" was false. In response to these notifications,, FTW and FTI said that because the lubricants they sold as "Tec-Lube" in 1998 were the same as the lubricant then sold by TorrLube, they could and would continue to claim that and would continue to advertise that "Tec-Lube is the identical lubricant [to TorrLube]". Since being contacted by plaintiff, both FTI and FTW have caused the advertising described above and in other advertising known to defendants and not to plaintiff to be placed and published and has caused their web sites and the web site for "Tec Lube" to be "coded" and designed in such a manner so as to become a "result" when one searches for "TorrLube" on commonly used internet search engines and has continued to assert false claims on its web-site. Unless enjoined and restrained from so doing, FTW and FTI has continued and will continue to so advertise falsely that Tec-Lube lubricant is "identical" to TorrLube, when, in fact, it is not.
- 33. Unless a preliminary injunction is issued enjoining and restraining Tec-Lube and Fil Tech West, and each of them, and their successors, assigns, parents, subsidiaries, agents and representatives, the said parties and entities will continue to falsely advertise lubricants sold under the Tec-Lube brand as being "identical" to TorrLube brand lubricants and will continue to use coding to have their web site and the above false claims be a result when

"TorrLube" is searched on commonly used internet search engines. Said relief is authorized pursuant to 15 USC 1116.

34. Said injunction should be made permanent.

COUNT FOUR

[Restitution and Injunction for Unfair Competition under California B & P Code 17200]

- 35. Plaintiff hereby incorporates paragraphs 15 through 19, inclusive, and 22 through 28,, inclusive, herein as though set forth in full at this point.
- 36. Said conduct, by defendants, and each of them, is in violation of California Bus & Prof. Code section 17200 <u>et seq</u> (unfair competition) in that it constitutes "unfair, deceptive, untrue and misleading advertising."
- 37. Pursuant to B & P Code section 17203, Plaintiff is entitled to a preliminary and permanent injunction against defendants, and each of them, and their successors, assigns, parents, subsidiaries, agents and representatives enjoining and precluding defendants, and each of them and their successors, assigns, parents, subsidiaries, agents and representatives from advertising in any way that lubricants sold by them under the Tec-Lube brand is "identical" to or has the same properties as lubricants sold under the TorrLube brand and trademark and from coding their web site in such a way as to have their web site be shown as a result when TorrLube is searched on commonly used internet search engines.
- 38. In addition, plaintiff is entitled to recover, as and for restitution, the money realized by defendants, and each of them, as a result of their conduct described above, consisting of their sales of Tec-Lube brand lubricants since 2005 which have been made as a result of said unfair competition (false, untrue, misleading and deceptive advertising and web search results).

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COUNT FIVE

[Damages for Common Law "Unfair Competition"]

- Plaintiff hereby incorporates paragraphs 15 through 19, inclusive, and 22 through 28,, inclusive, herein as though set forth in full at this point.
- 40. Said conduct of Defendants, and each of them, constitutes a wrongful exploitation of plaintiff's trade name and trademark, "TorrLube" (by claiming to be selling the "identical" product), has created competitive injuries to Plaintiff and constitutes common law "unfair competition" under the laws of the State of California.
- 41. Plaintiff has been injured and damaged in amounts not known to it by reason of sales of Tec-Lube to its potential customers who believed that they were buying the "identical lubricant" as TorrLube at 10% or 20% less money and by damages to its reputation because persons dissatisfied with the performance of lubricants sold by defendants as being "identical" to and "guaranteed to perform" identical to "TorrLube" lubricants when, in fact, the lubricants sold by defendants under the Tec-Lube brand are not identical and have inferior performance characteristics. Said damages consist of the actual sales by defendants of Tec-Lube brand lubricants since 2005 and such other and further damages as may be found, subject to proof.

WHEREFORE, plaintiff prays that judgment be entered in its favor and against defendants, and each of them, as follows:

- 1. For damages, costs and attorneys fees under the Lanham Act;
- That said damages be tripled;
- For restitution of all moneys obtained by defendants as a result of their false and deceptive business practices under California B & P Code 17200 et seq.;
- For damages under common law "unfair competition" for all competitive injuries suffered by Plaintiff as a result of defendants' conduct as described herein;
- For a temporary injunction enjoining and restraining defendants, and each of them, and their successors, assigns, parents, subsidiaries, agents and representatives from falsely advertising lubricants sold under the Tec-Lube brand as being "identical" to TorrLube

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brand lubricants (or in any way conveying the impression that the lubricants they sell are the same or "identical" to TorrLube brand lubricants) and from continuing to use coding to have their web site and the above false claims be a result when "TorrLube" is searched on commonly used internet search engines.

- 6. That said injunction be made permanent.
- 7. For costs of suit and such other relief as may be just and proper.

Dated: July 20, 2007

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RICHARD I, WIDEMAN, Esq.

and

LAW OFFICES OF KIRK B. FREEMAN.

BY:

RICHARD I. WIDEMAN, ESQ.

Attorneys for THE TORRLUBE COMPANY LLC

DEMAND FOR JURY TRIAL

Plaintiff hereby demands a jury trial as provided by Rule 38 (b), FRCP.

Dated: July 20, 2007

RICHARD I, WIDEMAN, Esq.

and

LAW OFFICES OF KIRK B. FREEMAN.

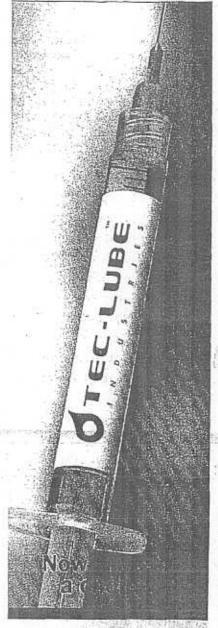
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RICHARD I. WIDEMAN, ESQ.

Attorneys for THE TORREUBE COMPANY LLC

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if you are currently using the leading lubricant for your high vacuum semiconductor applications, consider this: Tec-Lube is the identical. lubricant and sells for 20% less.

We want you to make the switch. We are ready to send you a free sample syringe of Tec-Lube.

Go to your computer now, click on our website, click for a free syringe, and start saving 20%. We offer volume discounts for distributors and

> Tec-Lube Industries Pleasanton, CA 94588 (866) 651-8200 (925) 251-8205 Fax



Figure 5. Load scanner translation for wear/friction testing.

extend the lifetime of components well beyond that supplied by single layers. Figure 3 shows a SEM of a CrN/NbN superlattice and Figure 4 shows the extension in the life of a carbide tool coated with a TiAlYN/VN superlattice compared to single layer TiCN [3].

As with all areas of technology, it is necessary to test the tribological coatings before they are applied to functional components. Widely used test are

- Load scanner
- · Hardness (discussed in previous issue)
- · Lubricity
- · Sliding speed

The load scanner test involves sliding two crossed cylindrical specimens across each other with a constantly varying load, as shown in Figure 5. The parts can be uncoated, coated, lubricated or dry. The load increases in the forward direction and decreases in the reverse direction. This sequence can be cycled until failure occurs. As many as 15000 sliding cycles have been used. Damage is then assessed at each contact distance, and 3-D maps of friction vs load are compiled.

The load scanner can also be used to assess the running-in properties of a Inbricated substrate. Figures 6 a and b shows the coefficient of friction plotted against load and number of cycles for a steel on steel and then DLC coated steel cylinder rubbing against an uncoated steel cylinder [7]. The advantage of using DLC is obvious.

The sliding speed test directly determines the level of lubrication and involves a cylinder rotating against a flat. This set up simulates a cam regulated valve. As expected, the coefficient of friction depends on the coating material used and the sliding speed. Some of the materials with lowest coefficients are Al-bronze, MoS₂, TaC and DLC,

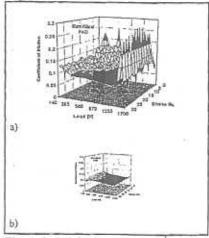


Figure 6a and 6b. Coefficient of friction for steel/steel and DLC/steel/steel [7].

Organic materials can also possess useful tribological properties. For example, PTFE (Teflon®) coatings are used extensively on cookware, saw blades, and medical instruments. These materials, however, are very soft and must be treated with care.

References:

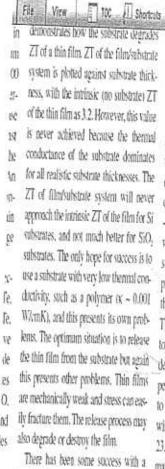
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- 2. S. Jacobson and S. Hogmark, Proceedings of the 45" Annual Technical Conference of the Society of Vacuum Coaters (2002) 393 -
- 3. P. Eh, Hovsepian, D. B. Lweis and W. D. Munz, Surface & Coatings Technology, 133-134 (2000) 166 - 175.
- 4. C. Morant,; Prieto, P.; Forn, A.; Picas, J. A.; Elizalde, E.; Sanz, J. M., Surface and Coatings Technology (2004), 180-181(Complete), 512-518.
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- S. Hogmark, S. Jocobson and O. Vingsbo, ASM Handbook Vol. 14, Sectoin III-Wear, Ch. 21 (1992) 176 - 183.

www.Tec-Lube.com

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There has been some success with a few low dimensional structures. At PNNAL we have deposited thin films with promisting themsoelectric properties at cannot

identify naterials due to IP considerations) on low thermal conductivity polyimide substrates. High quality PhTe/PbSeTe superlattices have been deposited by RTI by molecular beam epitary (ABE)[8]. The thermoelectric and electric properties were found to depend critically on layer thickness. Thicknesses - 30 - 50 nm worked the best. The films were deposited onto expensive GaAs substrates and released using a chemical process. ZT - 2 has been achieved for these superlattices at 550 K. Thermoelectric devices (next month's topic) developed with these superlattices demonstrated very promising cooling performance. Cooling devices were able to pump heat fluxes up to 700 W/cm² with localized cooling and heating rates 23,000 faster than bulk devices with bulk materials.

An Search

PhTe/PhSeTe quantum dot structures have demonstrated ZT-2 at 550 K [9]. Figure 6 shows the quantum dot array. expensive. PECVD processes are now being explored for deposition of the superlattices.

To date, thin film and quantum well structures have not yet lived up to expectations, probably because we do not understand all the mances involved in achieving these complex structures. Cost is also one of the big questions for extensive development of these materials and process equipment aren't cheap. Costs can be projected to be less than \$0.10 W in ten years, but the way the price of oil keeps sky-rocketing, thermoelectric power generation and waste heat recovery may look very attractive by then.

I will complete our discussion on thermoelectric energy conversion next month with a description of thermoelectric power generaling and cooling devices and systems.

Relation

- 1 J. Bass, Presented at the 2004 DEER Conference, San Diego, CA August 2004 2 L.D. Hicks and M.S. Diesserbaus, "Effect of Quantum-well Structures on the Thennoclectric Figure of Ment," Phys. Rev. B. 47, 12727 (99).
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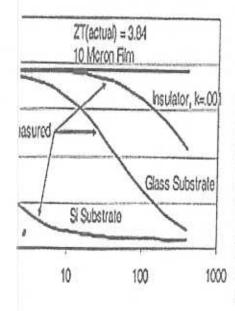
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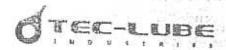
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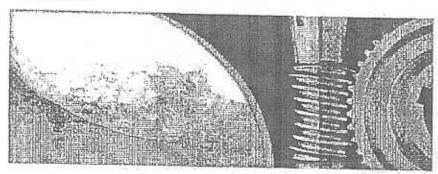
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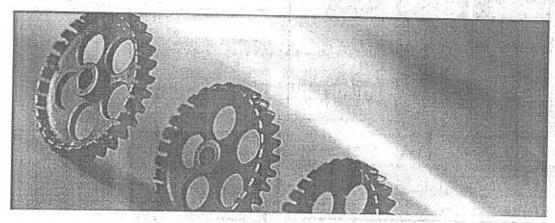
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- Richard Wideman BEN: Thanks. PRINT to e 9:29 am (13 minutes ago)
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